Remarks

The final Office Action mailed October 29, 2010 has been carefully reviewed and the foregoing amendment has been made in consequence thereof.

Claims 1, 3-8, and 10-15 are now pending in this application. Claims 1, 3-8, and 11 stand rejected. Claims 2 and 9 have been canceled. Claims 12-15 are newly added. No new matter is added by new Claims 12-15.

Applicants acknowledge the Examiner's indication that Claims 9 and 10 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The objection to Claims 9 and 10 is moot in light of Claim 9 being canceled, and Claim 10 being amended to depend from independent Claim 1. As such, Applicants respectfully request reconsideration and withdrawal of the objection to Claims 9 and 10.

The rejection of Claims 1, 3-8, and 11 under 35 U.S.C. § 103(a) as being unpatentable over "Very Low Bit-Rate Video Coding Based on Matching Pursuits" by Ralph Neff and Avideh Zakhor (hereinafter referred to as "Neff") in view of "Redundancy-Driven A Posteriori Matching Pursuit Quantization" by Pascal Frossard, Pierre Vandergheynst, and Murat Kunt (hereinafter referred to as "Frossard") is respectfully traversed.

In particular, Claim 1 has been amended to include portions of original Claim 9, which the Examiner indicated as including allowable subject matter. More specifically, Applicants have amended Claim 1 to include the recitation "wherein the geometric transformations include translations, anisotropic dilations, and rotations, and are applied to a generating mother function g(x,y) by means of the following change of variables:

$$g_{\gamma}(x,y) = \frac{1}{\sqrt{a_1 a_2}} g(x_n, y_n), where$$

$$x_n = \frac{\cos\vartheta(x-b_1) - \sin\vartheta(y-b_2)}{a_1}$$

$$y_n = \frac{\sin\vartheta(x-b_1) - \cos\vartheta(y-b_2)}{a_2}$$

Accordingly, Applicants respectfully submit that Claim 1 is patentable over Neff in view of Frossard.

Claims 3-8 and 11 depend from independent Claim 1. When the recitations of Claims 3-8 and 11 are considered in combination with the recitations of Claim 1, Applicants submit that dependent Claims 3-8 and 11 likewise are patentable over Neff in view of Frossard.

For at least the reasons set forth above, Applicants respectfully request that the Section 103(a) rejection of Claims 1, 3-8, and 11 be withdrawn.

Further, no combination of Neff and Frossard describes or suggests a method of exploiting temporal redundancy between successive frames in a video sequence as is recited in new Claims 12 and 14. Accordingly, Applicants respectfully submit that new Claims 12 and 14 are patentable over Neff in view of Frossard.

Newly added Claims 13 and 15 depend from independent Claims 12 and 14, respectively. When the recitations of Claims 13 and 15 are considered in combination with the recitations of Claims 12 and 14, Applicants submit that Claims 13 and 15 likewise are patentable over Neff in view of Frossard.

In view of the foregoing amendments and remarks, all the claims now active in this application are believed to be in condition for allowance. Reconsideration and favorable action are respectfully solicited.

Respectfully submitted,

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